

## EP-2050 RESIDENTIAL PROTECTION



The **EP-2050** is an industrial electrical surge and noise filtration system adapted for the residential marketplace. The EP-2050 eliminates detrimental power disturbances that permeate the residential electrical distribution system. The compact unit provides automatic protection for industrial, residential and marine electrical distribution systems.

### THE EP-2050:

ABSORBS, DISSIPATES & REMOVES

- Transient voltage surges and spikes
- Frequency Noise Between 3kHz-1MHz
- Ring waves

DOES NOT SHUNT ENERGY TO GROUND.

The facility ground is not relied on for performance or survivability.

### EP-2050 GENERAL SPECIFICATIONS

CIRCUIT DESCRIPTION	Internal Circuit Breaker	Spectrum Multiplier a	Voltage Limit Clamp (MOV) a	Low-Pass Filter a	Dissipative Absorber	(Parallel Operated)
---------------------	--------------------------	-----------------------	-----------------------------	-------------------	----------------------	---------------------

#### OPERATING FREQUENCY

45 - 65 Hz

#### FREQUENCY ATTENUATION

-20 dB/decade roll-off starting at 2.5 kHz

#### MAX SURGE CURRENT

12.5 kA per mode

#### MCOV

20% above rated voltage

#### SAFETY APPROVALS

UL 1449 2nd Edition TVSS Testing Type 2 & Type 3 SPD

CSA Standards Class 9091 01 & 9091 81; CSA std. c22.2 No. 8-M1986

#### SAFETY RATINGS

Fire Rating 94V-0

#### OPERATING ENVIRONMENT

Approximately -25° C to 65° C

#### RESPONSE TIME

Primary Response Time: Instantaneous Key Event Time: Approx. 1 Nanosecond

#### COMPLIANCE

NEMA LS-1, NEC Surge Suppression Standards, Electrical Notice 516

#### CONNECTION

Wire leads. Size: 14 AWG Length: 3'

#### MATERIALS

Aluminum Housing, LED Indicator Lamps, 14 AWG 600 V rated Wire.

Circuit encapsulated in epoxy to retain integrity of circuitry in failure mode.

#### ACCESSORIES

Amber LED indicates active phase

#### DIMENSIONS & WEIGHT

100-127 V Units: Diameter: 3" Depth: 2.5" Weight: 1.5 lbs.

Compact for easy installation.

200-250 V Units: Diameter: 4.34" Depth: 3.35" Weight: 3 lbs.

Compact for easy installation.



EP-2050 PRODUCT ORDERING GUIDELINES					
MODEL NUMBER					
EP	2	0	5	0	1S240
	Series			Voltage Configuration ID#	
VOLTAGE CONFIGURATIONS					
SYSTEM VOLTAGE	PROTECT MODE	SYSTEM CONFIGURATION	VOLTAGE ID#	MCOV	SVR
Single Phase 100/200	L-N	3 Wire + G	1S200	130V	340V
Single Phase 120/240	L-N	3 Wire + G	1S240	150 V	395



\*Other voltages and configurations available upon request